## JAN. 15, 1938 HARTMAN: POLYCHAETOUS ANNELIDS

of Agamermis decaudata are of two types; namely, a protein with reactions of a conjugated fatty-acid-protein, and a neutral fat. It is also indicated that Scharlach R and Nile blue sulphate are not specific tests for uncombined fat or fatty acid but may indicate the presence of a fatty-acid-protein complex. Substances which are stained by Scharlach R or Nile blue sulphate must be shown to be extractable in fat solvents, to be non-digestible in artificial gastric juice, and to give negative xanthroproteic and ninhydrin reactions, before it can be concluded that they are free fatty acids or neutral fats.

Preliminary observations indicate the presence of protein (?-fattyacid-protein) globules in Rhabditis strongyloides Schneider (Rhabditidae), and Ditylenchus dipsaci (Kühn) Filipjev (Tylenchidae).

The writers are indebted to Mr. Jacob M. Schaffer, Mr. Robert R. Henley and Mr. Howard R. McMillin of the U.S. Bureau of Animal Industry for valuable suggestions.

## ZOOLOGY.—Nomenclatorial changes involving types of polychaetous annelids of the family Nereidae in the United States National Museum.<sup>1</sup> Olga Hartman. (Communicated by Mary J. Rath-BUN.)

An examination of the types of polychaetous annelids deposited in the U.S. National Museum indicates a necessity for several changes of names in the family Nereidae. The following alphabetical list gives the original name, reference, type locality, museum catalog number, and revised name. Synonyms are enclosed in brackets.

[Ceratonereis alaskensis Treadwell] (Proc. U. S. Nat. Mus. 60: 1-3, figs. 1-5, 1921) from Alaska, U.S.N.M. no. 19029, is C. paucidentata (Moore). Ceratonereis bartletti Treadwell (Jour. Wash. Acad. Sci. 27: 30-31, figs. 8-13, 1937) from western Greenland, U.S.N.M. no. 20224, is close to, if not identical with, *C. hircinicola* (Eisig). Area I of the proboscis lacks teeth, area III has a circular patch of 7 teeth; the jaw has 5 oblique teeth.

Ceratonereis gracilis n. comb., for Nereis gracilis Webster.

Ceratonereis irritabilis, n. comb., for Nereis irritabilis Webster.

Ceratonereis paucidentata, n. comb., for Nereis paucidentata Moore, includes Ceratonereis alaskensis Treadwell.

Ceratonereis pusilla, n. comb., for Nereis pusilla Moore.

[Heteronereis caeruleis Hoagland] (Bull. U. S. Nat. Mus. 100: 608, pl. 47, figs. 13-16, pl. 48, figs. 1-4, 1920) from the Philippine Islands, U.S.N.M no. 18948, is a Perinereis. It is close to P. camiguina Grube, but differs in that the areas V and VI of the proboscis have numerous small flat plaques in addition to the single series of transverse plates characteristic of the genus Perinereis, also, areas I and II lack paragnaths. P.

<sup>1</sup> Received November 1, 1937.

neo-caledonia Pruvot (Arch. zool. éxp. Paris, 70: 50-54, pl. 3, figs. 77-79) from New Caledonia, seems to be identical with P. caeruleis. This has already been suggested by Pruvot.

- [Leptonereis acuta Treadwell] (Rev. Mus. Paulista São Paulo 13: 3-5, figs. 1-7, 1923) from Brazil, U.S.N.M. no. 19030, is identical with Leptonereis culveri (Webster).
- Leptonereis culveri, n. comb., for Nereis culveri Webster, includes Leptonereis acuta Treadwell.
- [Neanthes palpata Treadwell] (Rev. Mus. Paulista São Paulo 13: 5–9, figs. 6– 15, 1923) from Brazil, paratype U.S.N.M. no. 19031, is a Pseudonereis. Transverse teeth are present on area VI, pointed cones are present on areas V, VII and VIII and rows of pectinae are on the maxillary ring.
- [Nereis brevicirrata Treadwell] (Proc. U. S. Nat. Mus. 58: 467-468, figs. 1-4, 1920) from Brazil, U.S.N.M. no. 18934, is a Perinereis. Area V of the proboscis has 2 conical teeth, side by side, area VI has 2 transverse teeth in similar arrangement but nearer the maxillary ring, areas VII and VIII have about 12 larger flattened cones on the oral side and an irregular row of smaller cones on the maxillary side; area I has 2 teeth in tandem.
- [Nereis culveri Webster] (Ann. Rep. New York Mus. 32: 111-113, pl. 3, figs. 23-30; pl. 4, figs. 31, 32, 1879) from New Jersey, U.S.N.M. no. 541, is a Leptonereis. Paragnaths are absent from both rings. Jaws are delicate, amber, with 9-12 closely set teeth; parapodia have greatly shortened dorsal and ventral cirri. The types of N. culveri and Leptonereis acuta agree favorably.
- [Nereis decora Treadwell] (Rev. Mus. Paulista São Paulo 17: 15–17, figs. 6-11, 1932) from Brazil, U.S.N.M. no. 19639, is identical with Nereis *riisei* Grube.
- [Nereis disparsetosa Treadwell] (Rev. Mus. Paulista São Paulo 17: 15-17, figs. 6-11, 1932) from Brazil, U.S.N.M. no. 19638, is a Pseudonereis, identical with Ps. palpata. Area VI of the proboscis has a transverse chitinous plate, area V a pointed cone, areas VII-VIII have 21 cones in a single continuous row. Posterior dorsal lobes are elongate, flattened, foliaceous, convex along the dorsal edge, the dorsal cirrus is inserted terminally. Jaws are dark brown, each with 6 indistinct crenulate teeth. Dorsal, middle and ventral parapodial lobes are pigmented.
- [Nereis eucapitis Hartman] (Proc. U. S. Nat. Mus. 83: 468-469, fig. 46, 1936) from California, U.S.N.M. no. 20198, is identical with Nereis heterocirrata Treadwell.
- [Nereis gracilis Webster] (Bull. U. S. Nat. Mus. 25: 313-314, pl. 9, figs. 29-35, 1884) from Bermuda, U.S.N.M. no. 4787, is a Ceratonereis. Paragnaths are absent from the oral ring. Paragnaths on the maxillary ring are arranged as follows: areas I and II none, areas II and IV each with about 9 to 12 tall, slender cones in a crescent. Jaws are light horny brown, each with 4 or 5 teeth. The name, N. gracilis is preoccupied by Hansen (Mém. cour. Belg. 44: 10, 1882). Since, Webster's type is a Ceratonereis, no change seems necessary.
- Nereis heterocirrata Treadwell (Proc. U. S. Nat. Mus. 80: 1-2, figs. 1a-e, 1931) from Japan, U.S.N.M. 19323, includes N. eucapitis Hartman.
- [Nereis irritabilis Webster] (Trans. Albany Inst. 9: 231-234, pl. 5, figs. 56-64; pl. 6, figs. 65-69, 1879) from Virginia, U.S.N.M. no. 531-534, is a Ceratonereis. It differs from the widely known C. hircinicola (Eisig)

JAN. 15, 1938

which it resembles in some respects, in having area III of the proboscis provided with a broad band of 3 or 4 irregular rows of teeth, which almost meet those of area IV, instead of having a subcircular patch. Transformation of parapodia in epitokous females is at the 31st parapodium.

- [Nereis (Neanthes) linea Treadwell] (Proc. U. S. Nat. Mus. 83: 268–270, fig. 19, 1936) from China, U.S.N.M. no. 20115, is a Perinereis, identical with *P. aibuhitensis* (Grube).
- [Nereis (Neanthes) orientalis Treadwell] (Proc. U. S. Nat. Mus. 83: 270-272, fig. 19, 1937) from China, U.S.N.M. no. 20116, is identical with Perinereis aibuhitensis Grube. The type is a male heteronereid.
  [Nereis paucidentata Moore] (Proc. Acad. Nat. Sci. Philadelphia, pp. 430-1000) for the type is a male heteronereid.
- [Nereis paucidentata Moore] (Proc. Acad. Nat. Sci. Philadelphia, pp. 430– 431, pl. 24, figs. 28–30, 1903) from Alaska, U.S.N.M. no. 15709, is a *Ceratonereis*.
- [Nereis pusilla Moore] (Proc. Acad. Nat. Sci. Philadelphia, pp. 428–429, pl. 24, figs. 25–27, 1903) from Japan, U.S.N.M. no. 15734, is a *Ceratonereis*. The specific name has been previously used by Bosc in 1802, and by Langerhans in 1879. Neither of these, belongs to the genus *Ceratonereis*, thus a change of name is unnecessary.
- Perinereis aibuhitensis Grube (Mem. Acad. Sci. St. Petersburg 25: 89–90, pl. 5, fig. 3, 1878) from the Philippine Islands, includes Nereis linea and Nereis orientalis, both from China.
- Perinereis caeruleis, n. comb., for Heteronereis caeruleis Hoagland.
- [Platynereis integer Treadwell] (Bull. Mus. Nat. Hist. 100: 595-597, figs. 1-4, 1920) from the Philippine Islands, U.S.N.M. no. 18939, is identical with *Pl. polyscalma* Chamberlin (vide Monro, in Scientific Reports, 4: 18, 1931, and Fauvel, in Voy. Indes orient. Neérlandaises, p. 23, 1931).
- Platynéreis polyscalma Chamberlin (Mem. Mus. Harvard 48: 219) from the Gilbert Islands, U.S.N.M. no. 19449, includes *Pl. integer*.
- [Pseudonereis atopodon Chamberlin] (Mem. Mus. Harvard 48: 228, pl. 35, figs. 3–5, 1919) from the Tonga Islands, U.S.N.M. no. 19467, is identical with P. palpata.
- Pseudonereis palpata, n. comb., for Neanthes palpata Treadwell, includes Nereis disparsetosa Treadwell and Pseudonereis atopodon Chamberlin.
- Uncinereis agassizi (Ehlers) (Die Borstenwürmer, pp. 542–546, p. 23, fig. 1) from the Gulf of Georgia, British Columbia and Mendocino, California, includes U. subita Chamberlin.
- [Uncinereis subita Chamberlin] (Mem. Mus. Harvard, 48: 215–219, pl. 30, figs. 1–4, 1919) from California, U.S.N.M. no. 19495, is identical with U. agassizi (Ehlers).
- ZOOLOGY.—Three new species of the amphipod genus Ampithoe from the west coast of America.<sup>1</sup> CLARENCE R. SHOEMAKER, U. S. National Museum. (Communicated by WALDO L. SCHMITT.)

When examining collections of Amphipoda from the west coast of America from time to time, I have noted several specimens of Am-

<sup>1</sup> Published by permission of the Secretary of the Smithsonian Institution. Received November 4, 1937.